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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/584,004

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Gianni Collina

FE 6159 (US)

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EXAMINER

WRIGHT, SONYA N

ART UNIT

PAPER NUMBER

1762

MAIL DATE

DELIVERY MODE

11/24/2010

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/584,004	<b>Applicant(s)</b> COLLINA ET AL.	
	<b>Examiner</b> SONYA WRIGHT	<b>Art Unit</b> 1762	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 August 2010.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 13-16 and 18-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 13-16 and 18-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This action is in response to applicant's amendment filed August 19, 2010.

Claim 26 has been amended. Claims 13-16 and 18-26 are pending in this application.

The rejection in the last office action is maintained. In addition, upon further consideration, a new ground of rejection is made.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 25 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 395 083 Sacchetti et al.

#### **Claim 25**

Sacchetti et al. teach examples of instant claim 25, when in instant claim 25, n is 2 or 3, p is as defined, and LB is EtOH or another alcohol. In instant claim 25, p is a small number, therefore, when n is 2, and LB is EtOH or another alcohol the number of moles of alcohol is essentially 2. Sacchetti et al. teach the use of 2 moles of alcohol, after dealcoholation, in page 3, lines 46-47. When n is 3 and LB is EtOH or another alcohol, the number of moles of alcohol is essentially 3. Sacchetti et al. teach the use of 3 moles of alcohol, before dealcoholation, in page 3, lines 30-34 and in Example 1, page 6, line 40 and Examples 2-5 in pages 7-9.

Claim 26

Sacchetti et al. disclose instant claim 26 when in instant claim 26, n is 2 or 3, p is as defined, and LB is an alcohol. In instant claim 26, p is a small number, therefore, when n is 2, and LB is an alcohol the number of moles of alcohol is essentially 2. Sacchetti et al. teach the use of 2 moles of alcohol, after dealcoholation, in page 3, lines 46-47. In instant claim 26, p is a small number, therefore, when n is 3, and LB is an alcohol the number of moles of ethanol is essentially 3. Sacchetti et al. teach the use of 3 moles of alcohol, before dealcoholation, in page 3, lines 30-34 and in Example 1, page 6, line 40 and Examples 2-5 in pages 7-9.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13-16 and 18-24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over EP 0 395 083, Sacchetti et al.

#### Claim 13

Sacchetti et al. teach examples of instant claim 13, when in instant claim 13, n is 2 or 3, p is as defined, and LB is EtOH or another alcohol. In instant claim 13, p is a small number, therefore, when n is 2 and LB is an alcohol the number of moles of alcohol is essentially 2. Sacchetti et al. teach the use of 2 moles of alcohol, after dealcoholation, in page 3, lines 46-47. In instant claim 13, p is a small number, therefore, when n is 3, and LB is an alcohol the number of moles of ethanol is essentially 3. Sacchetti et al. teach the use of 3 moles of alcohol, before dealcoholation, in page 3, lines 30-34 and in Example 1, page 6, line 40 and Examples 2-5 in pages 7-9.

Sacchetti et al. do not teach the fusion enthalpy lower than 100 J/g. However, the fusion enthalpy is inherent in the invention of Sacchetti et al. The invention of Sachetti et al. contains the same components,  $\text{MgCl}_2$  and an alcohol, as the invention

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instantly claimed. Therefore the fusion enthalpy of Sacchetti et al. would be the same as that instantly claimed.

Claim 14

In Sacchetti et al., see page 3, lines 30-34 and 46-47, Example 1, page 6, line 40 and Examples 2-5 in pages 7-9.

Claim 15

In Sacchetti et al., see page 3, lines 30-34 and 46-47, Example 1, page 6, line 40 and Examples 2-5 in pages 7-9.

Claim 16

In Sacchetti et al., see page 3, lines 30-34, and 46-47.

Claim 18

In Sacchetti et al., see page 3, lines 27-29 and 50-56.

Claim 19

Sacchetti et al. teach instant claim 19 when in instant claim 19, n is 0, y is a valence of titanium, X is halogen, and R is absent. In Sacchetti et al., see page 3, lines 27-29 and 50-56.

Claim 20

In Sacchetti et al., see page 3, lines 27-29 and 50-56.

Claim 21

In Sacchetti et al., see page 3, lines 27-29 and 50-56, and page 4, line 18.

Claim 22

In Sacchetti et al., see page 3, lines 27-29 and 50-56 and page 4, line 18.

Claim 23

In Sacchetti et al., see page 4, lines 38-39.

Claim 24

In Sacchetti et al., see page 3, lines 7-9 and page 6, lines 1-36.

***Response to Arguments***

Applicant's arguments, see p. 5 and 6, filed August 19, 2010, with respect to the rejection(s) of claim(s) 26 under 35 U.S.C. 102 have been fully considered but they are not persuasive. Therefore, the rejection is maintained. In addition, upon further consideration, a new ground(s) of rejection is made.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONYA WRIGHT whose telephone number is (571)272-5857. The examiner can normally be reached on 8:30 am to 5:00 pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ling-Siu Choi/  
Primary Examiner, Art Unit 1762

/SONYA WRIGHT/  
Examiner, Art Unit 1762